CLAIMS

What is claimed is:

- 1. A computerized system that transforms hierarchical data into a rowset, the system comprising:
- a parser that parses the hierarchical data to form an active store; and
- a query processor that receives a query including a number of metaproperties and that uses the query in selecting data from the active store to form the rowset.
- 2. The computerized system of claim 1, wherein the parser comprises:

 a module that converts the hierarchical data to an internal representation in the active store.
- 3. The computerized system of claim 2, wherein the internal representation is a document object model (DOM).
- 4. The computerized system of claim 2, wherein the internal representation is an edge table.
- 5. The computerized system of claim 4, wherein the hierarchical data is XML data.
- 6. The computerized system of claim 2, wherein the module comprises:

 a module that identifies nodes in the hierarchical data.

- 7. The computerized system of claim 1, wherein the query comprises:
 - a Structured Query Language (SQL) statement.
- 8. The computerized system of claim 7, wherein the Structured Query Language (SQL) statement comprises:
 - a SELECT statement.
- 9. The computerized system of claim 8, wherein the query includes row information and the column information comprising:

a row pattern and one or more column patterns that identifies information in the XML active store.

- 10. The computerized system of claim 1, wherein the hierarchical data is XML data.
- 11. The computerized system of claim 1, wherein the hierarchical data is SGML data.
 - 12. A method comprising:

identifying row and column information in hierarchical data;

and

using a number of metaproperties and the row and column information in transforming the hierarchical data into a rowset.

13 The method of claim 12, wherein identifying row and column information in the hierarchical data comprises:

using a row pattern to identify row information in the hierarchical data; and

using a column pattern to identify column information in the hierarchical data.

14. The method of claim 12, wherein using a number of metaproperties and the row and column information in transforming the hierarchical data into a rowset comprises:

using a parent ID metaproperty in transforming the hierarchical data into a rowset.

- 15. The method of claim 14, wherein using a parent ID metaproperty in transforming the hierarchical data into a rowset comprises: using the parent ID metaproperty in forming an edge table for use in transforming the hierarchical data into a rowset.
- 16. The method of claim 12, wherein using a number of metaproperties and the row and column information in transforming the hierarchical data into a rowset comprises:

using a parent ID metaproperty and a parent metaproperty in transforming the hierarchical data into a rowset.

- 17. The method of claim 12, further comprising: processing the rowset using relational techniques to form a second rowset.
- 18. The method of claim 17, further comprising:
 transforming the second rowset into a second hierarchical
 data stream.
- 19. The method of claim 12, further comprising: identifying and using implicit data in transforming the hierarchical data into a rowset.

20. A method comprising:

forming a rowset from an XML data file;

adding overflow data to the rowset to form a second rowset;

and

converting the second rowset into a second XML file without

loss of data.

21. The method of claim 20, wherein forming a rowset from an XML data file comprises:

forming a query including a number of metaproperties; and processing the XML data file using the query to form the

rowset.

22. The method of claim 21, wherein adding overflow data to the rowset to form a second rowset comprises:

adding a column to the rowset in which to include the overflow data.

23. A method comprising:

converting a first hierarchical data stream into a rowset;

inserting information into the rowset; and

converting the rowset back into a second hierarchical data

stream without loss of data.

24. The method of claim 23, wherein converting the rowset back into a second hierarchical data stream without loss of data comprises:

using a number of metaproperties in converting the rowset back into the second hierarchical data stream.

25. A method comprising:

receiving a rowset; and
using a number of metaproperties in transforming the rowset into an XML data file.

- 26. The method of claim 25, wherein receiving a rowset comprises:
 receiving a rowset including overflow data.
 - 27. The method of claim 25, further comprising: transmitting the XML data file.
- 28. The method of claim 25, wherein receiving a rowset comprises:

 receiving a rowset having a first data field associated with an

ID metaproperty and a second data field associated with the ID metaproperty.

- 29. The method of claim 28, wherein using a number of metaproperties in transforming the rowset into XML data comprises:

 fusing the first data field to the second data field in the process of converting the rowset into an XML data file.
- 30. A computer-readable medium having computer-executable instructions for performing operations comprising:

 using a number of metaproperties associated with a rowset to convert the rowset to an XML active store; and converting the XML active store to form XML formatted information.
- 31. The computerized system of claim 30, further comprising: an XML formatter for transforming the active store to a second XML data file.

and

32. A computer-readable medium having computer-executable instructions for performing operations comprising:

converting a first XML data stream into a rowset; inserting information having metaproperties into the rowset;

converting the rowset back into a second XML data stream without loss of data.

33. A computer-readable medium having computer-executable instructions for performing operations comprising:

identifying row and column information in a hierarchical data stream; and

using implicit information and the row and column information in transforming the hierarchical data stream into a rowset.

- 34. The computer-readable medium of claim 33, wherein the hierarchical data stream is an XML data stream.
- 35. The computer readable medium of claim 33, wherein the hierarchical data stream is an SGML data stream.
- 36. The computer readable medium of claim 33, wherein the hierarchical data stream is derived from data capable of being represented in a graph.
- 37. A computerized system for transforming hierarchical data into a rowset, the system comprising:

means for parsing the hierarchical data to form an active store; and

means for receiving a query including a number of metaproperties and for using the query in selecting data from the active store to form the rowset.